



# ***Lightweight, Low Cost Chemical/Biological Resistant Tentage Materials***

## ***What It Is:***

Desert heat, wind, rain, arctic cold...tents are exposed to all these harsh elements of the environment. We're developing a family of affordable materials that will perform in these conditions and resist chemical and biological (CB) agents, resist ultraviolet radiation and retard flame.

## ***Why It's Needed:***

Two CB-resistant materials are currently used in shelters. One is a low cost, disposable liner material that lacks flame and ultraviolet resistance. It doubles the weight, volume and set-up time of a shelter system. The other material is a proprietary laminate that is fairly difficult to manufacture and also rather expensive.

## ***How It Works:***

The most promising new tentage materials will be stronger and more durable than materials available now. We're studying four different candidates:

- High performance and decontaminable material;
- Low cost and disposable material;
- Modified TEMPER material (used for our general purpose tent);
- Self-decontaminating material.

## ***Benefits:***

**Improved Performance...**Our high performance material should cost 50% less, weigh 25% less and offer better abrasion resistance.

**Smooth Production...**Ease of manufacturing will be a major factor as we select new CB-resistant materials.

## ***Point of Contact:***

**Collective Protection Liaison**

Phone: 508-233-4347

U.S. Army  
Soldier and Biological  
Chemical Command

Soldier Systems Center  
Kansas Street  
Natick, Massachusetts  
01760  
[www.sbccom.army.mil](http://www.sbccom.army.mil)

Rev 4-4-00